



**MICRO-MESH
SIEVES**

in 3-inch ring holders

Buckbee Mears

Wherever you are in the world, when you successfully sort a six micron from a five micron particle you will be using a Buckbee Mears Company sieve. For these sieves, made by an entirely new process have established a new standard of measurement in the control of sub-micron particles. Sieves are electroformed to a guaranteed accuracy of \pm two microns. Mesh area is .003 inches thick with supporting grid .015 inches thick on $\frac{1}{16}$ inch centers.

PROGRESS . . . the continuing effort of hand and mind



Nested in the photo above is a set of BMC micro-mesh sieve screens. They are a must in laboratories concerned with chemical, petroleum, missile, electronics, food, cosmetic, paint and many other industries. The background picture is a 10-time enlargement—heavy squares are support grids . . . Standard sets of BMC micro-mesh sieves in 90, 75, 60, 45, 30 and 20 micron hole sizes are available from stock. Smaller sizes down to 5 microns are made to order.

For complete information call or write . . .

BUCKBEE MEARS CO.

245 E. Sixth St., St. Paul 1, Minn., CA 7-6371

Buckbee Mears Company also manufactures etched forms and electroforms of unusual accuracy—items used in electronic tubes, shaver heads, numerical indicator tubes, color television masks. Perhaps a component for your product could be made better and more economically by this process. We will gladly quote from your specifications.



ELECTROFORMED MESH

AVAILABLE SIZES AND LINES

L.P.I.	SIZE in INCHES	SPACE	WIRE	MAX. TRANS.
2000	2½ x 3	.00025	.00025	22%
1500	5½ x 6	.00040	.00026	36%
1000	6½ x 6¼	.00063	.00037	40%
750	4½ x 4½	.00099	.00031	60%
500	11½ x 12	.00150	.00050	58%
400	8 x 8½	.00191	.00059	60%
300	8 x 8½	.00264	.00066	61%
250	11½ x 11½	.00338	.00062	68%
200	6½ x 6½	.00456	.00045	70%
150	23 x 24	.00552	.00114	67%
120	4½ x 5	.00690	.00140	70%
110	16 x 11½	.00767	.00125	75%
100	6 x 6	.00895	.00105	82%
90	10¾ x 13	.00970	.00130	80%
80	5 x 5¾	.01153	.00097	85%
70	9½ x 11½	.01286	.00153	81%
60	9 x 11¾	.01520	.00147	83%
50	6 x 6	.01784	.00216	82%
40	5 x 5¼	.02343	.00257	87%
30	6¼ x 6¼	.03094	.00236	86%
25	8½ x 6½	.03670	.00330	85%
20	6½ x 7	.04946	.00054	97%
5	5½ x 6	.19825	.00175	98%

Evaporation masks for mesa transistors, germanium and silicon in miniature and sub-miniature sizes are standard quantity production by Buckbee Mears Company electroforming techniques. Master rulings (straight or cross line, calibrated dials, scales and various purpose reticles) are made on a special ruling engine which produces up to 2000 lines per inch. Linear accuracies up to 14 inches of $\pm .000039$ and up to 24 inches $\pm .0001$ are possible. Concentric circles of 10 inch diameter with an accuracy of $\pm .000039$ and angular tolerances to 10 seconds of arc are available. Line width tolerances of $\pm .0001$ are common . . . Anything that can be drawn in line can be reproduced. If it's impossible try us.

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One million holes per square inch and each one perfect—that's a typical electronic screen made by the Buckbee Mears Company electroforming process. Each hole has perfectly square intersections—opening and wire sizes controlled to tolerances of ± 2 microns—that is standard quality production . . . Nickel mesh from 250 to 1000 lines per inch for direct view storage tubes, image orthicon, vidicon, and other special purpose vacuum tubes are produced in quantity for General Electric, Bell Telephone, Western Electric, Radio Corporation of America, Hughes Aircraft and others. Copper, silver, gold and other metals may be formed.

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